Conference calls: Minutes

Participants identified on doodle:

- Alban Richard (UShareSoft)
- Alexandre Lefebvre (Orange)
- Andrea Manieri (Engineering)
- Benoît Pelletier (Bull)
- Catherine Nuel (OW2)
- Christian Bigeard (UShareSoft)
- Christophe Hamerling (PetalsLink)
- Hailong Sun (BUAA)
- Jean-Pierre Dion (Bull)
- Jean-Pierre Laisné (Bull)
- Jean-Pierre LORRE (PetalsLink)
- Lionel Seinturier (INRIA)
- Minghui Zhou (PKU)
- Nenad Stojanovic (FZI, University of Karlsruhe)
- Parham Parvizi (Talend)
- Patrick Moreau (INRIA)
- Patrick Petit (Bull)
- Stefano Scamuzzo (Engineering)
- Wei Wang (ISCAS)
- Xu Wang (BUAA)
- Yury Glickman (Fraunhofer Fokus)
**OSCi mailing list**

- cloud-initiative@ow2.org
- To subscribe: email to sympa@ow2.org with the following subject: SUBscribe cloud-initiative <name>
- To consult archives, login to [http://mail.ow2.org/wws](http://mail.ow2.org/wws) (a password will be delivered when asked to Sympa) and go to cloud-initiative

**Introduction policy on mailing list:**

1. Subscribe to the mailing list
2. Introduce your activities in cloud computing, eventually your road map and introduce your contribution to OSCi

**Note**

The OSCi mailing list is open to any subscriber. All emails regarding OSCi are circulating via this list.

**OSCi website**

The OSCi website is available at [http://www.ow2.org/Cloud/](http://www.ow2.org/Cloud/)
Agenda:
1. Review of action items
2. OSCi Domains Follow Up
3. Update on Collaborative projects, especially Call 8 FP7 (IP, SSA), ...

Monday 27 June 2011 at 5:00PM CEST

Attendees
- Catherine Nuel (OW2)
- Jean-Pierre Laisné (Bull)
- Christian Bigeard (UShareSoft)
- Yury Glickman (Fraunhofer Fokus)
- Jean-Pierre Lorre (PetalsLink)
- Patrick Moreau (INRIA)

Were also expected:
- Lionel Seinturier (INRIA) (excused)
- Stefano Scamuzzo (Engineering)
- Alban Richard (UShareSoft)
- Andrea Manieri (Engineering)
- Patrick Petit (Bull)

Duration: 1:00 hour
Attendees : 5

Tuesday 28 June 2011 at 11:00AM CEST

Attendees
- Alexandre Lefebvre (Orange)
- Jean-Pierre Laisné (Bull)
- Benoit Pelletier (Bull)
- Nenad Stojanovic (ZFI Uni Karlsruhe)
- Wang Wei (ISCAS)

Duration: 1:15 hour
Attendees : 5
Were also expected:

- Christophe Hamerling (PetalsLink)
- Minghui Zhou (PKU) (excused)
- Jean-Pierre Dion (Bull)
**Report**

1. **Review of action items**

   - **Action** AFNOR/ISO meeting: *DONE in April. No Feedback yet. AL to get feedback.*
     
     Feedback from Junfeng Zhao: During the April ISO meeting, we talked about the cloud computing standard work and its related organization. Many national bodies suggest that in order to focus on the standard work, it should only lists those organizations such as ISO, W3C, Oasis etc. In the next version we will add other organizations that related with cloud computing.

   - **Action** BUAA: Hailong Sun has organized a team to study JASMINe and JOnAS. BUAA's Web Service container will run on top of JOnAS. François Exertier confirms there is an integration of AXIS2 in JOnAS by PKU (in beta). Apache CXF is also integrated in JOnAS. BUAA works on software similar to JASMINe for Cloud management, but has no similar design tools. François Exertier confirms JASMINe works on JMX but adaptor can be done for web services. BUAA proposes a new use case for JOnAS and JASMINe. Possible contributions from BUAA could be components to enhance Web Services support in JASMINe. BUAA and Jasmine team to discuss all this on JASMINe Mailing List.

   - **Action** ISCAS: Benoit has invited people to join JOnAS mailing list (done). ISCAS team and JOnAS/JASMINE team started collaboration.

WW reported on the ISCAS OW2 cooperation.

Currently, the cooperation between ISCAS and other OW2 members is based on the OW2 programming contest. ISCAS has proposed 4 topics concerning the multi-tenancy security, the application deployment, and the multi-tenancy testing in cloud computing. ISCAS have registered 4 teams for the above topics. The 4 teams have created their projects in Trustie site:

1. **Project Name: SecurityWatcher**
   
   This project is created for the topic of adding context-Aware support for JOnAS security.

   As we know, the cloud computing environment is distributed, heterogeneous and dynamic. However, the security module in JOnAS is not fine-grained enough to express the context requirements. This project will extend the Java2 security architecture to resolve the expressiveness limitations. Also, this project will enhance JOnAS with a new resource protected approach based on ABAC(Attribute-based access control) technology from the user perspective. Currently, this project has implemented a prototype and realized the above functions. Next, this project will provide a programming model for building security web application and improve the performance of the prototype.

2. **Project Name: DPCA**

   This project is created for the topic of deployment package customization module for JASMINe Deploy tool (JaDOrT).
Application deployment packages are vendor specific, that is, one package from a vendor specific platform (e.g. JBoss) cannot be directory deployed on the other one (e.g. JOnAS) without some customization works, and such works are tedious and error-prone. This project aims to provide a package customization module for JASMINe Deploy tool to transform different kind of vendor specific deployment packages to JOnAS compatible ones in a (semi-)automatic manner. The project team has completed the implementation of the application migration algorithm, and has tested the algorithm using JOnAS. Next, they will find a way to integrate this function with JASMINe Deploy tool.

3. Project Name: Bench4Q_Script

This project is created for the topic of adding a script module for Internet application to Bench4Q. Bench4Q is an OW2 project. It is an implementation of TPC-W benchmark. The goal of this project is to enhance the Bench4Q with a script module enabling users to record workload behaviors for any Internet applications, and generate measurable and repeatable workloads. The project team has analyzed the structure of CLIF (OW2 project) and obtained the key part about scripting, named Max-Q. Next, they will integrate the Max-Q with Bench4Q.

4. Project Name: TRE4J

This project is created for the topic of adding a support for multi-tenancy in cloud computing to Bench4Q.

As a trend in IT industry, cloud computing brings us several new appealing features, such as multi-tenancy. The goal of this project is to generate workloads of the various tenants, evaluate the tenant scalability (how many tenants can be hosted), and also evaluate the tenant performance isolation effect of the cloud platform under test. The project team has implemented a workload generator for multiple tenants. Also, they have implemented a resource monitor to directly measure the tenant's resource usage in Linux. However, this approach requires instrumentation, incurs overhead, and assumes OS support. Next, they will find a way to indirectly approximate the resource usage of various tenants.

The roadmap for integration the above 4 projects into OW2 projects:

<table>
<thead>
<tr>
<th>Programming Contest Project</th>
<th>OW2 Project</th>
<th>Initial Integration</th>
<th>Codebase Integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPCA</td>
<td>JASMINe Deploy tool (JaDOrT)</td>
<td>October, 2011</td>
<td>December, 2011</td>
</tr>
<tr>
<td>Bench4Q_Script</td>
<td>Bench4Q</td>
<td>October, 2011</td>
<td>December, 2011</td>
</tr>
<tr>
<td>TRE4J</td>
<td>Bench4Q</td>
<td>October, 2011</td>
<td>December, 2011</td>
</tr>
</tbody>
</table>

In the future, we are planning to propose a new OW2 project to provide multi-tenant support in JavaEE.
Application Server, such as tighter requirements for resource and better isolation between applications. We notice that this has been proposed as a main feature in JavaEE 7 (see JSR 342).

- **OSCi Workshop in Paris Follow Up**
  - **Action:** Missing slides: AM (Engineering), CH (Domain 2)
  - **Action:** AL to remind OSCi about the Domain 1 draft document. (done)
- **Action:** JPL and AL to publish SOTA and domain presentation documents on the website. (done)

Action: AL to find out about the state of DeltaCloud (liveliness of the standard in progress), also with Jean-Pierre Dion. JPD has not checked the state of DeltaCloud for a while, but will take a look and interact with Denis about it. No recent information about this.

Action: AL to setup the BI4CLOUD-OSCi mailing list, including initial participants, and advertise the new list on cloud-initiative@ow2.org. Proposed name is cloud-initiative-bi4cloud@ow2.org. The list has been created. Action SS to propose the list of subscribers for this mailing list.

Identify and contact other projects for the SSA (AL OW2). No action about this.

- 4caast (http://4caast.morfeo-project.org/)
- Choreos (http://www.choreos.eu/)
- CumuloNumbo (http://www.cumulonimbo.eu/)
- Contrail (http://contrail-project.eu/)
- REMICS (http://www.remics.eu/)
- Reservoir (http://www.reservoir-fp7.eu/)
- Cloud-TM (http://www.cloudtm.eu/)
- mOSAIC (http://www.mosaic-project.eu/)
- Vision Cloud (http://www.visioncloud.eu/)
- SLA@SOI (http://sla-at-soi.eu/)
- Clouds@home (http://clouds.gforge.inria.fr/pmwiki.php)
- Optimis (http://www.optimis-project.eu/)
- SOA4All (http://www.soa4all.eu/open-source-components.html)

DC mentioned a French cooperative project targeting RFID. Action DC to send information about this project.

“Open Cloud” PlugTest

**Action:** DC to follow up with ETSI about Strategy & New Initiatives.
2. Standards

In the framework of the CompatibleOne project (where some OSCi members participate), work on standards is being carried out.

In particular, OCCI (proposed by Open Grid Forum) is being considered closely, and is recommended by several partners.

On the other side, DMTF is also working on other standards.

A discussion will take place with Orange Labs on Monday 4 July on these standards, to share that we are making the good choice.

About DeltaCloud, RedHat has a project called CloudForms, and DeltaCloud is one of the components in this project. DeltaCloud uses OVF.

There is no connection between DeltaCloud and OCCI.

There is a group between OGF and DMTF to ensure OVF compatibility.

CompatibleOne targets to explore missing attributes in OVF and OCCI (e.g. OVF misses localization, energy-related attributes).

3. Update on Domains

3.1 Domain 1

BP reported on work on a specification for JOnAS PaaS system.

This includes the definition of a generic API, with focus on the application server services.

The idea is to have a common language for XaaS technical services. The goal is to define requirements (expected services from the application point of view), mapped to product capabilities.

This should be a common API that should be implementable by other middleware, such as a MOM, a persistence system, …

This is a draft document which was submitted to members of the CompatibleOne project. A future version will be submitted to OSCi for feedback (in July).

JCloud: a demonstrator with the SelfXL control loop plugged with Sirocco is planned. JCloud will be used to plug Sirocco into the SelfXL control loop. JCloud supports EC2, VCloud.

3.2 Domain 2

NS reported on Domain 2.

Focus is working on governance and real-time monitoring from the event processing point of view.

Technical work includes Event level agreement for event processing.
Work is progressing well.
JP Lorre will provide us with an update on the OSCi mailing list.

**3.3 Domains 3 and 4**
Nobody was present for domain 3, and domain 4 is covered in the collaborative projects.

**4. Collaborative projects**

**4.1 "Open cloud for Europe and beyond" Support Action**
The focus of the SSA is on standards, promotion of open source cloud, Japan.
SSA possible participants are OW2, Fokus, UShareSoft, Bull
Links with Japanese partners will be done through Fraunhofer with IPA, Fujistu, ATT, ... and with UShareSoft for Cloud providers and operators.
There was a recent request from Ignacio Llorente (OpenNebula).
The next step is to establish contact with them to share goals and construct the vision.

**4.2 Call 8 "Open cloud for sovereignty" Integrated Project**
JP Lorre is leading the effort
The focus is on Domain 4 (massively distributed, edge cloud).
The idea is to prepare a meeting which will be take place on 29 June, with INRIA Sardes project (JB Stefani) - participants JP Lorre, AL, JB Stefani, Yuri on the phone.
This should give a first technological scope for the project.
Then, we can start building the consortium with the right partners.
NS: We need to incorporate industrial partners who would be willing to use the results, could provide requirements, industrial use cases.

**Action AL** to check with Orange teams on M2M, home automation, for their interest in edge cloud.
Other possibility could include device providers, constructors such as Schneider Electronics, hardware providers.
Also see http://plugcomputer.org, by Marvell, which seems to be fairly open.

**Conclusion**
JPL closing word. We may need to formalize an intermediate analysis of the OSCi status.
- we need to finalize the agenda
- OSCi has achieved the foundations, putting people together, structuring the work, even though other work remains to be done (security, FP7 Call 8, ...)
- we need to share concrete results

**NEXT**

• Conference calls planned in September.
  ○ No proposed dates at this stage

In the mean time, please use the mailing list to:
- send updates
- report on results
- collaborative project updates
- share the construction of the Call 8